



FIGURE 1

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graph TD
    200([REQUEST]) --> 100[Calculate the Total Allocation of the Resource User that Would Result if the Request is Granted]
    100 --> 102{Soft Limit Exceeded?}
    102 -- N --> 104[Grant the Request]
    102 -- Y --> 106{Hard Limit Exceeded?}
    106 -- Y --> 108[Deny the Request]
    106 -- N --> 110{High Watermark Exceeded?}
    110 -- Y --> 112[Deny the Request]
    110 -- N --> 114[Grant the Request]
    112 --> 116[Enter Reduction Mode]

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graph TD
    220([REQUEST]) --> 130[Compute the Total Allocation of the Resource for the User that Would Result if the Request is Granted]
    130 --> 132{Soft Limit Exceeded?}
    132 -- N --> 134[Grant the Request]
    132 -- Y --> 136{Hard Limit Exceeded?}
    136 -- Y --> 138[Deny the Request]
    136 -- N --> 140{Low Watermark Reached?}
    140 -- Y --> 142[Grant the Request]
    142 --> 144[Enter Normal Mode]
    140 -- N --> 146[Deny the Request]

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